

## **FIREWIRE/USB BUS-CHARGER FOR 12V DC AUTOMOTIVE**

### **ABSTRACT OF THE DISCLOSURE**

An on-vehicle charger is provided to connect with a cigarette-lighting receptacle for supplying a DC power from an automotive to a circuit board. The input power is shunted, converted, regulated, and outputted to a USB jack and a FireWire jack respectively to serve as a FireWire power source for iPod.